

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A connector for connecting a fluid line to a fluid technology device, such as a drive, a valve, or a maintenance device, having a line connection (25) for fixing a fluid line (28), having a device connection (24) for attachment to a fluid technology device (1), and having a connection channel (26), which runs between the line connection (25) and the device connection (24) and allows a fluid to flow through, wherein ~~characterized in that~~ the connector (3) itself is equipped with a volume flow detection device (2), which comprises pressure drop generation means (46) provided in the connection channel (26) and which comprises a bypass channel (48) discharging into the connection channel (26) in the region of the pressure drop generation means (46) at points spaced in the running direction of the connection channel (26), wherein a mass flow sensor device (54) on or in the connector (3) is assigned to the bypass channel (48), said mass flow sensor device (54) being placed outside the connection channel (26) and being based on a calorimetric functional principle.
2. (Currently Amended) The connector according to Claim 1, further comprising ~~characterized by~~ a main housing (21) containing the connection channel (26).
3. (Currently Amended) The connector according to Claim 2, wherein ~~characterized in that~~ the main housing (21) has a first main housing body (34), having the device connection (24), which has a first connection channel section (32), and a second main housing body (35), having the line connection (25), which has a second connection channel section (33) that communicates with the first connection channel section (32).
4. (Currently Amended) The connector according to Claim 3, wherein ~~characterized in that~~ the second main housing body (35) is implemented as a pivot part (36) which is mounted so that it is rotatable on the first main housing body (34).

5. (Currently Amended) The connector according to Claim 2, wherein one of Claims 2 through 4, characterized in that the mass flow sensor device (54) is housed in a receiver housing (57), which is positioned on the main housing (21) or is at least partially formed by the main housing (21).
6. (Currently Amended) The connector according to Claim 5, further comprising Claims 5, characterized by a removable cap (62) of the receiver housing (57).
7. (Currently Amended) The connector according to Claim 1, wherein one of Claims 1 through 6, characterized in that the volume flow detection device (2) has an analysis electronics system (55) that works together with the mass flow sensor device (54).
8. (Currently Amended) The connector according to Claim 7, wherein the mass flow sensor device and in connection with Claim 5 or 6, characterized in that the analysis electronics system (55) is also are housed in a the receiver housing (57) positioned on the main housing or at least partially formed by the main housing.
9. (Currently Amended) The connector according to ~~one of Claims 5 through 8 in connection with Claim 3 or 4, characterized in that~~ wherein the mass flow sensor device is housed in a receiver housing, the receiver housing (57) ~~is being~~ provided on the second main housing body (35).
10. (Currently Amended) The connector according to Claim 1, wherein one of Claims 1 through 9, characterized in that the mass flow sensor device (54) is implemented as a chip.
11. (Currently Amended) The connector according to Claim 1, wherein one of Claims 1 through 10, characterized in that the mass flow sensor device (54) is a component constructed in microsystem technology.
12. (Currently Amended) The connector according to Claim 1, wherein one of Claims 1 through 11, characterized in that the pressure drop generation means (46) are replaceable.

13. (Currently Amended) The connector according to Claim 12, wherein ~~characterized in that~~ the pressure drop generation means (46) are a component of a replaceable insert body (68).
14. (Currently Amended) The connector according to Claim 13, wherein ~~characterized in that~~ the insert body (68) defines at least one longitudinal section of the connection channel (26).
15. (Currently Amended) The connector according to Claim 1, wherein ~~one of Claims 1 through 14, characterized in that~~ the pressure drop generation means (46) are formed by a screen (47).
16. (Currently Amended) The connector according Claim 15, wherein ~~characterized in that~~ the bypass channel (48) discharges into the connection channel (26) in the two corner regions between the screen (47) and the sections of the connection channel (26) adjoining on both sides.
17. (Currently Amended) The connector according to Claim 1, wherein the connector is ~~one of Claims 1 through 16, characterized by an embodiment as an elbow having~~ connections (24, 25) oriented at an angle to one another.
18. (Currently Amended) The connector according to Claim 17, wherein ~~characterized in that~~ the mass flow sensor device (54) is positioned on the side diametrically opposite the line connection (25).
19. (Currently Amended) The connector according to Claim 1, further comprising ~~one of Claims 1 through 18, characterized by being equipped with~~ additional pressure detection means (64) for the fluid pressure existing in the connection channel (26).
20. (Currently Amended) The connector according to Claim 1, further comprising ~~one of Claims 1 through 19, characterized by being equipped with~~ additional temperature detection means (65) for the fluid temperature existing in the connection channel (26).